

[54] MACHINE FOR LAMINATING GLASS

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References Cited

UNITED STATES PATENTS

2,156,680	5/1939	Dennison	156/106
2,159,630	5/1939	Haux et al.	156/106
2,899,967	8/1959	Firestone	134/64
3,400,018	9/1968	Morgan et al.	156/323
3,556,890	1/1971	Buckley et al.	161/125
3,595,251	7/1971	Tarantola	134/68
3,666,077	5/1972	Marshall	198/127 R

3,837,952 9/1974 Mogford 156/99

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ABSTRACT

A machine for continuously laminating a flexible film onto a succession of glass substrates is disclosed. The machine comprises a conveyor, adapted to transport a succession of glass substrates along a horizontal plane toward substrate preparation means which wash one surface of each substrate. The machine further includes guide means for safely guiding and alignably transporting the succession of glass substrates from the substrate preparation means to a predetermined application line associated with application means. The application means are adapted to continuously unroll and expose a quantity of flexible film having a pressure sensitive adhesive surface at the predetermined application line which lies in the horizontal plane, whereby film is continuously laminated onto the surface of each successive glass substrate to produce sheets of shatter-proof glass.

13 Claims, 7 Drawing Figures

